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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/600,346	11/09/2000	Steven A. Sunshine	018564002410	2656	
75	90 03/12/2003				
Joseph R Snyder Townsend & Townsend & Crew Two Embarcadero Center 8th Floor			EXAMINER		
			EASTHOM, KARL D		
1 0	CA 94111-3834				
Suit Handlovo, Oli Still Soot			ART UNIT	PAPER NUMBER	
			2832	2832	
			DATE MAILED: 03/12/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. 09/600,346

Applicant(s)

Office Action Summary

Art Unit

2832

Sunshine et al.

		Karl Easthom	2832	
	The MAILING DATE of this communication appears	on the cover sheet with the corres	spondence addres	ss
	or Reply DRTENED STATUTORY PERIOD FOR REPLY IS SET			
THE N - Extensi mailing - If the p - If NO p	MAILING DATE OF THIS COMMUNICATION.  ons of time may be available under the provisions of 37 CFR 1.136 (a). In date of this communication.  eeriod for reply specified above is less than thirty (30) days, a reply within te eriod for reply is specified above, the maximum statutory period will apply to reply within the set or extended period for reply will, by statute, cause to ply received by the Office later than three months after the mailing date of	no event, however, may a reply be timely filed the statutory minimum of thirty (30) days will be and will expire SIX (6) MONTHS from the mailing the application to become ABANDONED (35 U.5)	e considered timely.  ng date of this commur  5.C. § 133).	
earned	patent term adjustment. See 37 CFR 1.704(b).		·	
Status 1) 🔀	Responsive to communication(s) filed on Jan 29, 2	2003		
		tion is non-final.		
2a) 💢			aution on to the	marite is
3) 🗆	Since this application is in condition for allowance closed in accordance with the practice under $Ex\ partial$	except for formal matters, prose arte Quayle, 1935 C.D. 11; 453	O.G. 213.	; ments is
	tion of Claims	! - !	noodina in tha	application
	Claim(s) <u>1-17 and 29-31</u>			1
4	a) Of the above, claim(s)	is/a	re withdrawn fro	om consideration.
5) 🗆	Claim(s)		is/are allowed.	
6) 💢	Claim(s) 1-17 and 29-31		is/are rejected.	
7) 🗆	Claim(s)			
8) 🗆	Claims			
•	ation Papers			
9) 🗆	The specification is objected to by the Examiner.			
10)	The drawing(s) filed onis/ar	e a) $\square$ accepted or b) $\square$ object	ed to by the Exa	aminer.
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a	a).
11)	The proposed drawing correction filed on	is: a) $\square$ approved	b) disapprov	ed by the Examiner.
	If approved, corrected drawings are required in reply			
12)	The oath or declaration is objected to by the Exam	niner.		
	under 35 U.S.C. §§ 119 and 120			
	Acknowledgement is made of a claim for foreign	priority under 35 U.S.C. § 119(a	)-(d) or (f).	
a)[	☐ All b)☐ Some* c)☐ None of:			
	1. Certified copies of the priority documents ha			
	2. Certified copies of the priority documents ha			
*0	3. Copies of the certified copies of the priority application from the International Bur See the attached detailed Office action for a list of t	eau (PCT Rule 17.2(a)).	n this National S	otage
	Acknowledgement is made of a claim for domesti		9(e).	
	The translation of the foreign language provision			
15) 🗔				
Attachn				
	lotice of References Cited (PTO-892)	4) Interview Summary (PTO-413) Pape	er No(s).	
21 N	lotice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal Patent Applicatio	n (PTO-152)	
3) 🗌 li	nformation Disclosure Statement(s) (PTO-1449) Paper No(s).	6) Other:		

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1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-7, 9-15, 17 and 29-31 are rejected under 35 U.S.C. 102(b) as being anticipated by Debe. Debe discloses the claimed invention at col. 12, lines 34-45, and col. 23, lines 1-25, where two sensors, having aligned conductive regions 16, see Fig. 1, comprise an array, and the calibration table is the known sensor array response profile. The integrated circuitry and multiplexed array constitute the computer, since computer logic is necessarily involved in the comparison. In claims 3-6, the type of process alignment does not render the product distinct, since the product has aligned regions. For claims 7-11, 13-15, and 31, see col. 8, lines 50-65, where the metal coatings thereat comprise the claimed elements as coated on the whiskers to form aligned regions. In claim 9, the whiskers are nanoparticles col. 9, lines 1-3. For claim 12, see bottom of col. 6. For claim 17, see col. 7, line 56. For claim 15, a metal oxide is disclosed at col. 24, lines 45-47.
- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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- 4. Claims 8 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Debe in view of Lewis et al. (WO 99/00663). The claimed invention is disclosed as noted above except the particular metal oxides. Lewis at page 27 lines 1-22 discloses same as good substitutes for metal conductors that are the same as the metal conductors of Debe for the purpose of detecting a known analyte, such that the substitution would have been obvious. As to combining Lewis, the motivation is
- Applicant's arguments filed 1/24/03 have been fully considered but they are not persuasive. Applicant argues that the whiskers of Debe are not aligned conductive material. This is not correct. The whisker itself is a line or a form of a line. Applicant's claim does not incorporate the limitations of the specification so that the discussion of aligned discrete particles is not germane to the claim. As to combining Lewis, both references deal with aligned chemical sensors. The whiskers of Debe are disclosed as being conductive, and at least one embodiment discloses oxidized metal Cu. Lewis teaches that the materials are interchangeable for sensing chemicals, so that the argument that one teaches particles and the other teaches whiskers does not defeat the combined teaching that the claimed oxides are useful whisker substitutes.
- 6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl Easthom whose telephone number is (703)308-3306. The examiner can normally be reached on M-Th. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin Enad, can be reached on (703)308-7619. The fax phone number for the organization where this application or proceeding is assigned is (703)308-7722. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

KARL D. EASTHOM PRIMARY EXAMINER